Haier

Domestic Dishwasher

SERVICE MANUAL

Models

DW9-AFM

l Features

- l **Overflow Protection Function**
- l **5 Programs: Intensive,Normal,Rinse,Glassware,Soak**
- l **Super-Capacity for 9 settings**
- l **45cm width**

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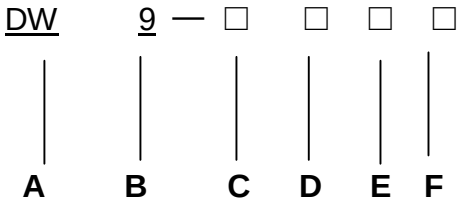
1.Product Code Illumination and Series Introduction

Model Identification



- **A:** Abbreviation of dishwasher
- **B:** Code name of Nominal capacity
- **C:** Series of factory design
- **D:** Freestanding/built –in/semi-built-in
- **E:** Mechanical/Electronic
- **F:** The second series of factory design code name described/outer side material

Examples:

DW9-AFM

It represents automatic spraying mechanical freestanding dishwasher, the cavity capacity is 9 standard sets.

2.Features

2.1 Overflow Protection Function

2.2 5 Programs: Intensive,Normal,Rinse,Glassware,Soak

2.3 Super-Capacity for 9 settings

2.4 45cm width

3. Safety Precaution

NOTICE

Carefully read the instructions contained in this manual, as they provide important information which is essential to safe and proper installation, use and maintenance of the appliance.

This appliance complies with the following EEC directives:

- 73/23/EEC of 19/02/73 (Low Voltage) and subsequent modifications;

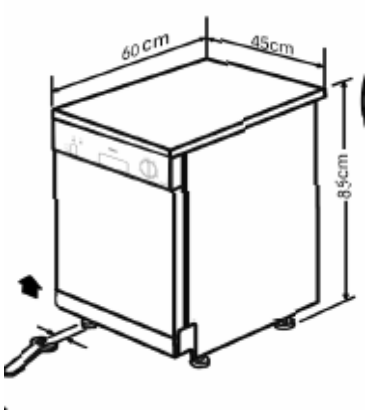
- 89/336/EEC of 03/05/89 (Electromagnetic Compatibility) and subsequent modifications.

- Carefully dispose of the packing material.
- After removing the packing, check to make sure that the appli-ance is not damaged. If in doubt, contact a qualified professional.
- The dishwasher must only be used by adults for the washing of household dishes and cooking utensils.
- Fundamental rules to follow when using the appliance:

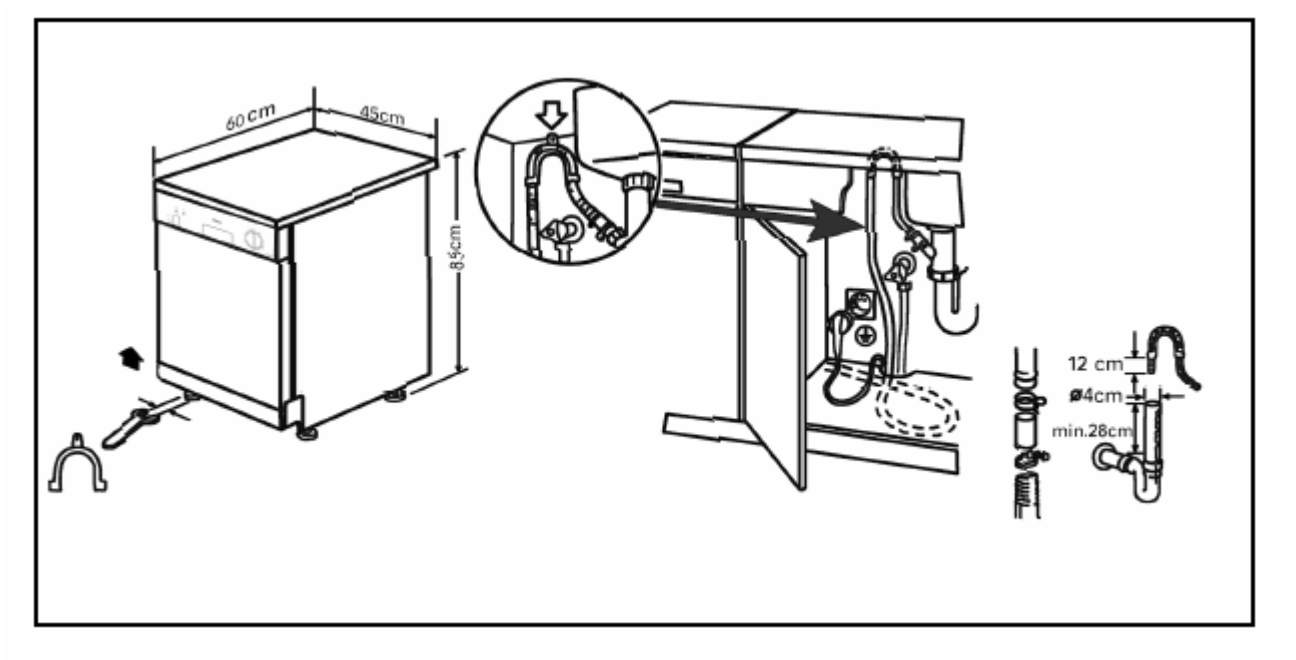
* Never touch the dishwasher when bare foot or with wet hands or feet;
* We discourage the use of extension cords and multiple sockets;
* During installation, the power supply cord must not be excessively or dangerously bent or flattened;
* If the appliance is not operating properly or maintenance must be performed, disconnect the appliance from the power supply.

- Keep detergents out of the reach of children, who must also be kept away from the dishwasher when it is open.
- This appliance cannot be installed outdoors, not even if the area in which it is installed is covered by a roof; it is also very dangerous to leave it exposed to the rain and elements.
- Do not touch the heating element during or after a wash cycle.
- Do not lean or sit on the door when it is open, as this could overturn the dishwasher.
- If the appliance malfunctions, turn off water supply to the appli-ance and disconnect the plug from the wall socket. Then, con-sult the section entitled, "Troubleshooting". If you can not solve the problem, contact a service centre.
- Only specialised personnel are authorised to make repairs.
- Appliances which are no longer being used must be made inoperable by cutting the power supply cord and removing the door lock.
- The appliance must be positioned so that the plug is accessible.or feet;
- The carpet must not obstruct the opening when the appliance in-stalling on the ground with carpet.
- If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer orits service agent.

4.Net dimension



5.Installation and Accessory Parts



5.1 Positioning the Appliance

Position the appliance in the desired location. The back should rest against the wall behind it, and the sides, along the adjacent cabinets or wall. The dishwasher is equipped with water supply and drain hoses that can be positioned on the right or the left to facilitate proper installation.

5.2 Leveling the Appliance

Once the appliance is positioned, adjust the feet (screw them in or out) to level the dishwasher. In any case, the appliance should not be inclined more than 2° . If the appliance is level,it will help ensure proper performance.

5.3 Cold Water Connection

Connect the cold water supply hose to a threaded 3/4(gas) connector and make sure that it is fastened tightly in place (see Fig 1).If the water pipes are new or have not been used for an extended period of time,let the water run to make sure that the water is clear and free of impurities.If this precaution is not taken,there is a risk that the water inlet can get blocked and damage the appliance.

5.4 Hot Water Connection

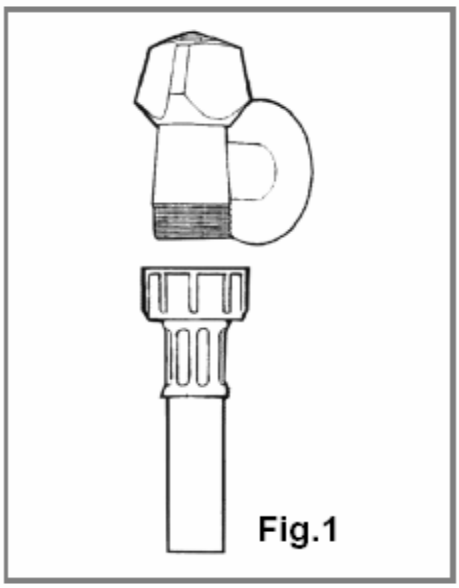


Fig.1

The water supply to the appliance can also be connected to the house's hot water line (centralised system, heating system), as long as it does not exceed a temperature of 60℃

In this case, the wash cycle time will be shortened by about 15 minutes and the wash efficiency slightly reduced.

The connection must be made to the hot water line following the same procedures as those for the connection to the cold water line.

Attention:

The special plastic hose support must be solidly fastened to the wall to prevent the drain hose from moving and allowing water to spill outside the drain.

Electrical Connection

After making sure that the voltage and frequency values for the current in the home correspond to those on the rating plate (located on the stainless steel inner door of the appliance) and that the electrical system is sized for the maximum voltage on the rating plate, insert the plug into an electrical socket which is earthed properly (the earthing of the appliance is a safety requirement mandated by law). If the electrical socket to which the appliance must be connected is not appropriate for the plug, replace the plug, rather than using adaptors or the like as they could cause overheating and burns.

5.5 Drain Hose Connection

Insert the drain hose into a drain pipe with a minimum diameter of 4cm,or let it run into the sink, making sure to avoid bending or crimping it. Use the special plastic support that comes with the appliance (see Fig.2). The free end of the hose must be at a height between 40 and 100 cm and must not be immersed in water.

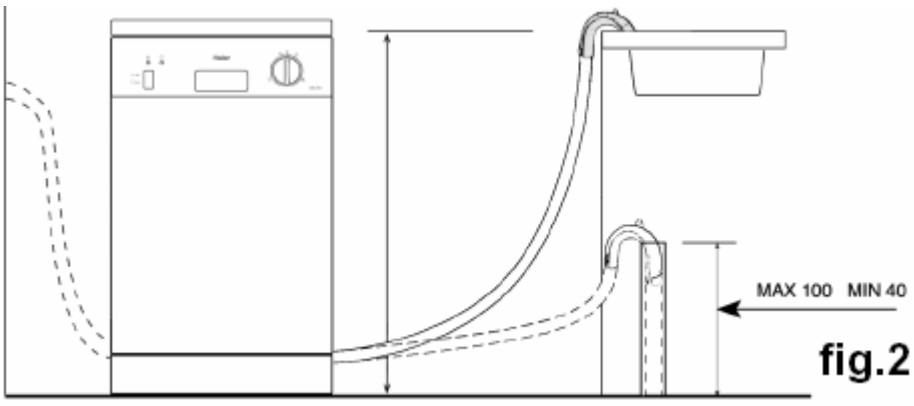
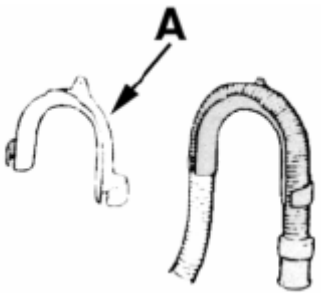
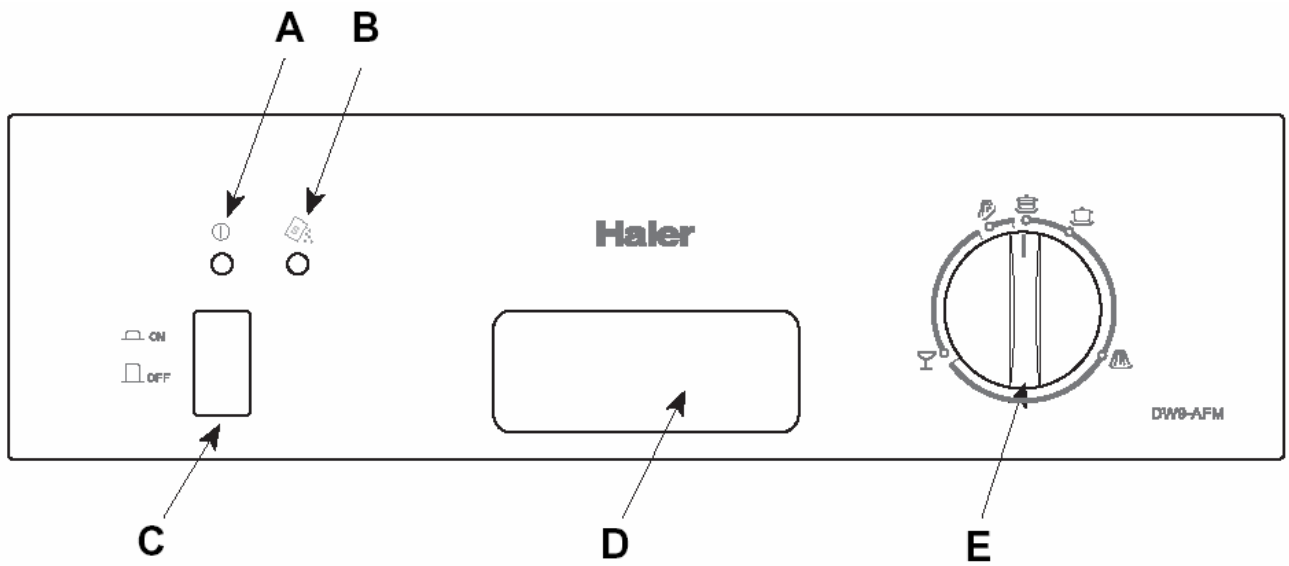
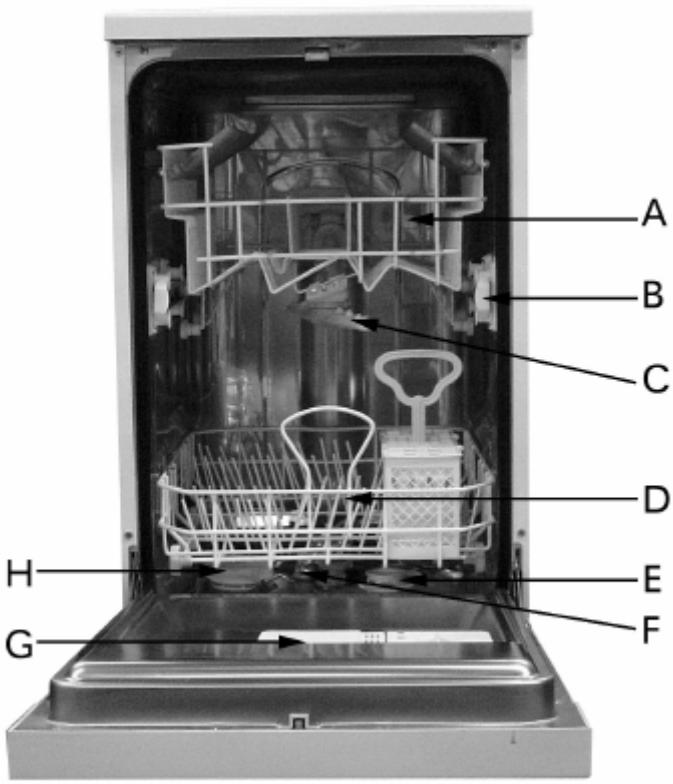


fig.2



6.Parts and Functions





A	Upper Rack	E	Washing Filter
B	Rack Height Adjustor	F	Bottom Spray Arm
C	Top Spray Arm	G	Detergent and Rinse Aid Dispenser
D	Lower Rack	H	Salt Container Cap

Salt

The hardness of the water varies from place to place. If hard water is used in the dishwasher,deposits will form on the dishes utensils.

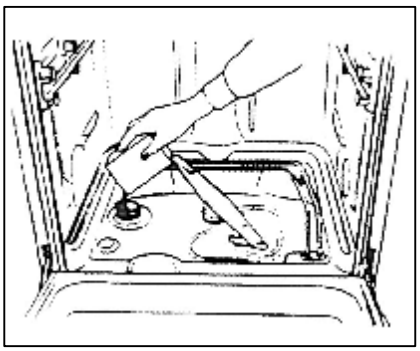
The appliance is equipped with a special softener that uses a salt specifically designed to eliminate lime and minerals from the water.

Loading the Salt into the Softener

Always use salt intended for use with dishwashers.

The salt container is located beneath the lower rack and should be filled as follows:

- Remove the lower rack and then unscrew and remove the cap from the salt container;
- If you are filling the container for the first time, fill it with water;
- Place the end of the funnel(supplied) into the hole and introduce about 2 kg of salt.It is normal for a small amount of water to come out of the salt container.
- Carefully screw the cap back on.



The salt container should be filled after about every 30 wash cycles.

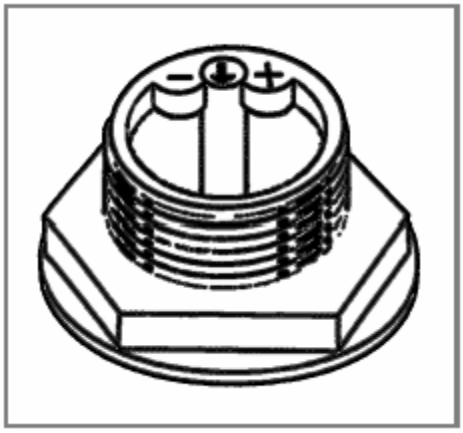
To prevent the formation of rust, load the salt just before beginning a wash cycle.

Adjusting Salt Consumption

The dishwasher is equipped with a system to adjust the level of salt consumption in function of the hardness of the water being used in order to optimize and customize the level of salt consumption while keeping it to a minimum.

To adjust salt consumption,proceed as follows:

- Unscrew the cap from the salt container;
- There is a ring on the container with an arrow on it (see figure to the side), If necessary, rotate the ring in the anticlockwise direction from the "-" setting towards the "+" sign,based on the hardness of the water being used.



It is recommended that adjustments be made in accordance with the following scheme:

Detergent

Detergent specifically intended for use with dishwashers must be used.The dispenser must be refilled before the start of each wash cycle following the instructions provided in the "Wash Cycle Table." The detergent dispenser is located on the inside panel the door.

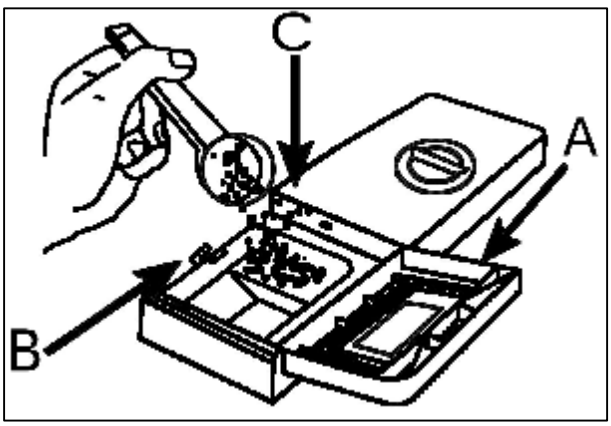
Loading the detergent

To open the "A" cover on the dispenser,press the "B" button.The detergent for the wash cycle should be poured into the "C" compartment.

After the detergent has been placed in the dispenser, close the cover and press down until it clicks in place.

Notice:To facilitate closing the cover, remove any e

xcess detergent on the edges of the dispenser.



Rinse Aid

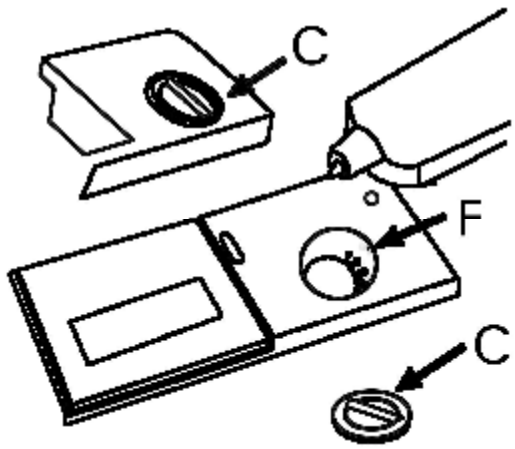
This product makes dishes sparkle and helps them to dry without spotting.The dispenser is located on the inside panel of the door and should be filled after every 80 wash cycle (or when the rinse aid indicator light comes on for those models with this feature).

The Rinse Aid

To open the dispenser,turn the "C" cap in the anti-clockwise dierction and then pour in the rinse aid,making sure not to overfill.The amount of rinse aid used for each cycle can be regulated by turning the "F" dose adjustor ,located beneath the "C" cap, with a screwdriver.There are 6 different settings; the normal dosage setting is 3.

Important

Proper dosage of the rinse aid improves drying.
If drops of water remain on the dishes or spotting occurs,the dosage adjustor should be turned to a higher setting.
If the dishes have white streaks,turn the dosage adjustor to a lower setting.



Loading the Dishwasher

Before placing the dishes in the dishwasher, remove the large food particle to prevent the filter from becoming clogged, which results in reduced performance.

If the pots and pans have baked-on food that is extremely hard to remove, we recommend that they be allowed to soak before they are washed. This will eliminate the need for extra wash cycle.

Pull out the rack to facilitate loading the dishwasher.

How to Use the Lower Rack

We recommend that you place the items which are the most difficult to clean items on the lower rack: pots, lids, serving dishes and bowls, as shown in the figure to the right.

It is preferable to place serving dishes and lids on the sides of the racks in order to avoid blocking the rotation of the top spray arm.

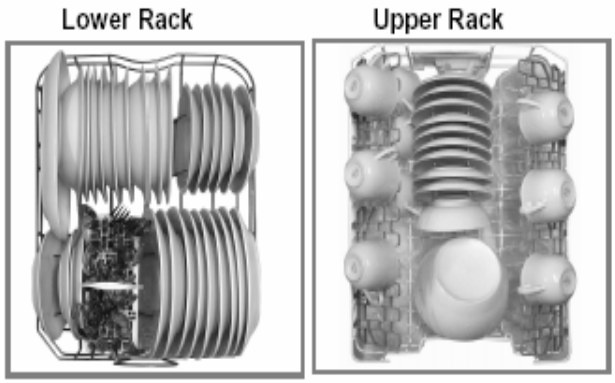
- Pots, serving bowls, etc. must always be placed face down.
- Deep pots should be slanted to allow the water to flow out.
- The lower rack features fold down tine rows (see fig.A) so that larger or more pots and pans can be loaded.
- The silverware basket can not be doubled (see fig.B) .
- Silverware should be placed in the silverware basket with the handles at the bottom; if the rack has side baskets, the spoons should be located individually into the appropriate slots. Especially long utensils should be placed in the horizontal position at the front of the upper rack.

How to Use the Upper Rack

The upper rack is designed to hold more delicate and lighter dishware, such as glasses, coffee and tea cups and saucers, as well as plates, small bowls and shallow pans (as long as they are not too dirty).

Position the dishes and cookware so that they do not get moved by the spray of water.

The upper rack can be adjusted for height. (See fig.C)



Load for 9 Standard Settings

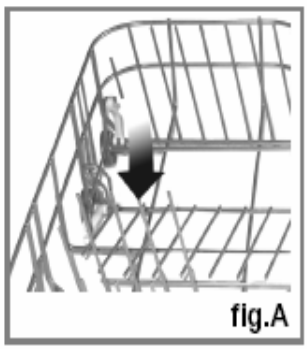


fig.A

fig.B

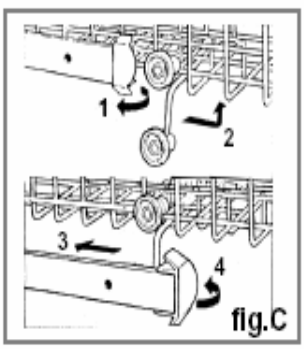
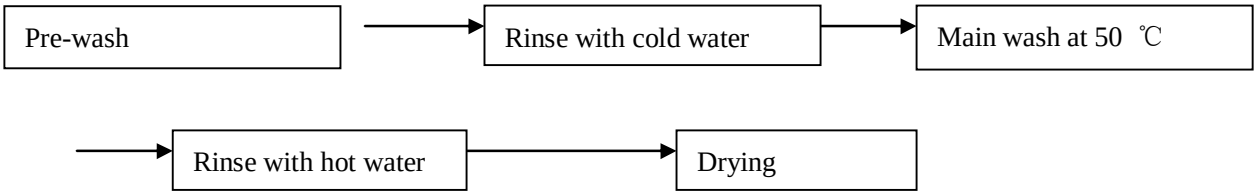


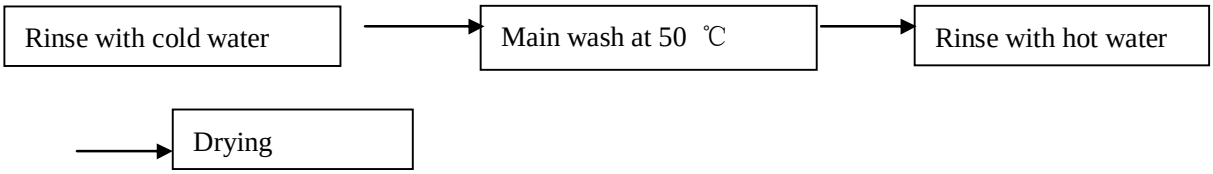
fig.C

7. Function Schedule

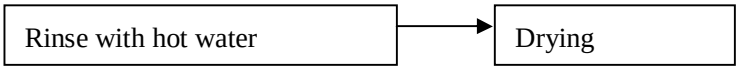
1. Intensive wash



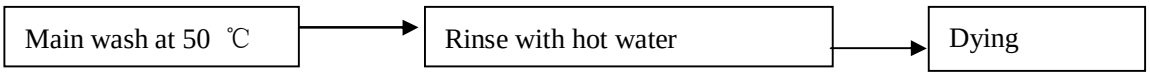
2. Normal wash



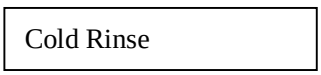
3.Rinse wash



4.Glassware



5. Soak



8. Program Diagram

Wash Cycle Table

Cycle	Cycle Selection Information	Description of Cycle	Deter-gent	Rinse Aid
Intensive Wash	Very dirty dishes, pots and pans. (not to be used with delicate items)	Pre-wash with cold water. Rinse with cold water. Extended wash at 50℃. Rinse with hot water. Drying.	30g	★
Normal Wash (IEC-EN50242)	Normally dirty dishes, pots and pans. Standard daily cycle.	Rinse with cold water. Extended wash at 50℃. Rinse with hot water. Drying.	25g	★
Rinse	For dishes that need to be rinsed and dried only.	Rinse with hot water. Drying.		★
Glassware	Economic, fast cycle to be used for items which are sensitive to higher. Run immediately after dishes are used.	Wash at 50℃. Hot Rinse. Drying.	15g	★
Soak	Pre-wash of dishes, pots and pans while waiting for the load to be completed after the subsequent meal.	Short cold wash to prevent food residue from drying on the dishes.		

9.Maintenances Services and Trouble Shooting

9.1 Maintenances Services

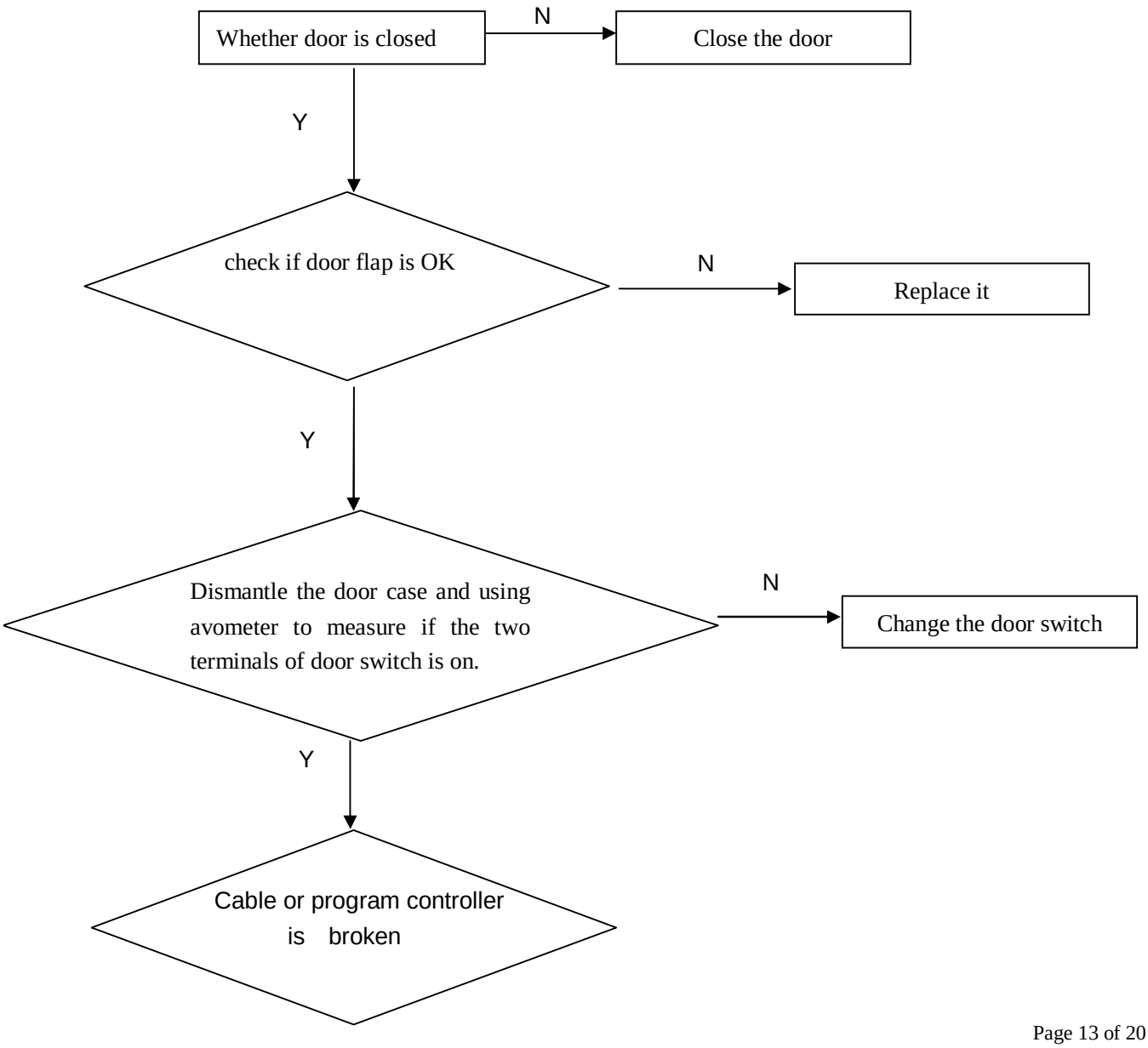
It may occur that the dishwasher does not function or does not function properly Before calling for assistance,let us see what can be done first:have you forgotten to press one of the buttons or to perfom an essential operation?

9.2 Trouble Shooting

analysis of the common breakdowns

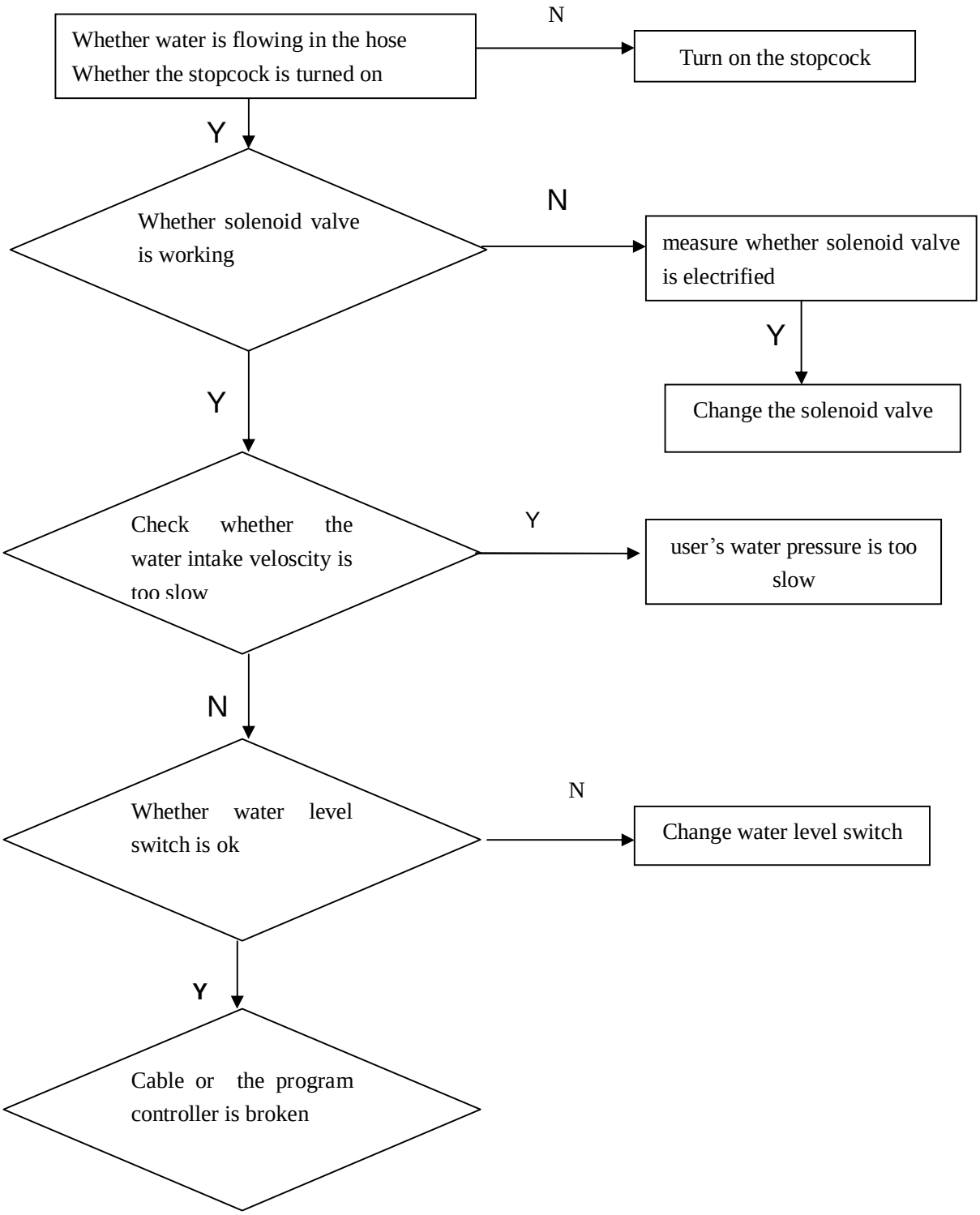
Door switch trouble

Phenomenon: the dishwasher does not work



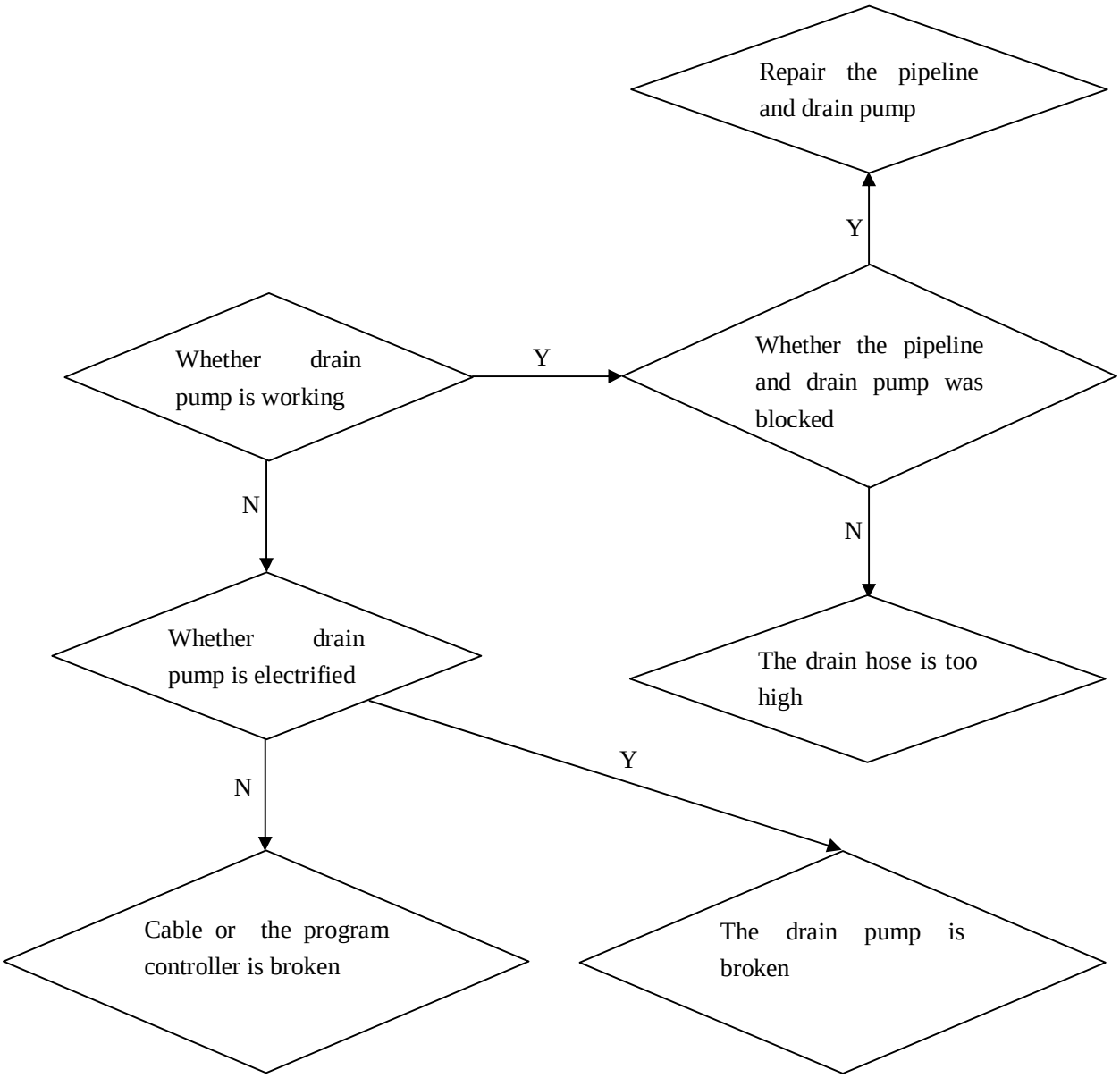
Water supply trouble

Phenomenon: water level cannot reach the required location



Drain pump trouble

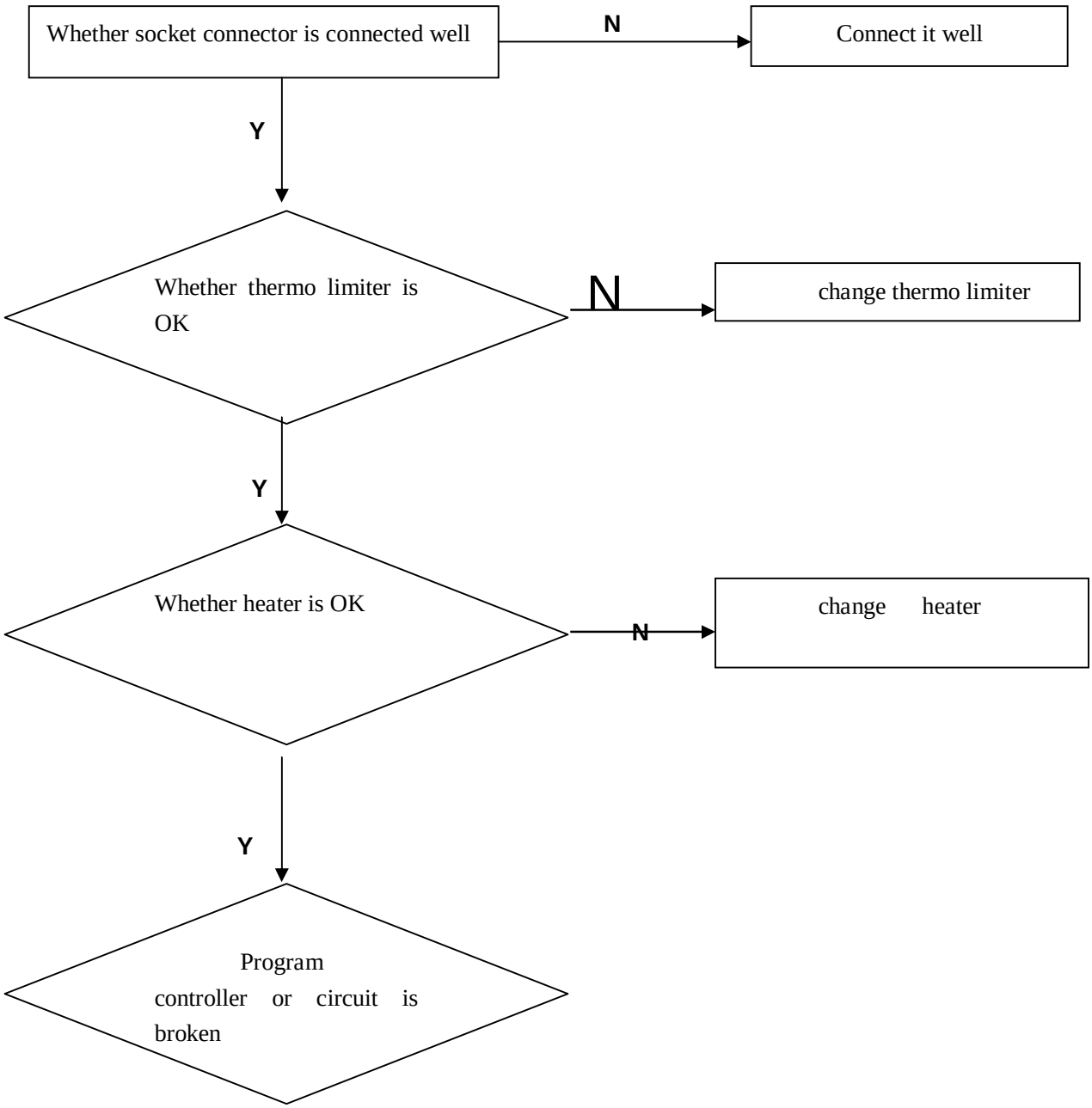
Phenomenon: water cannot be drained



Heating trouble

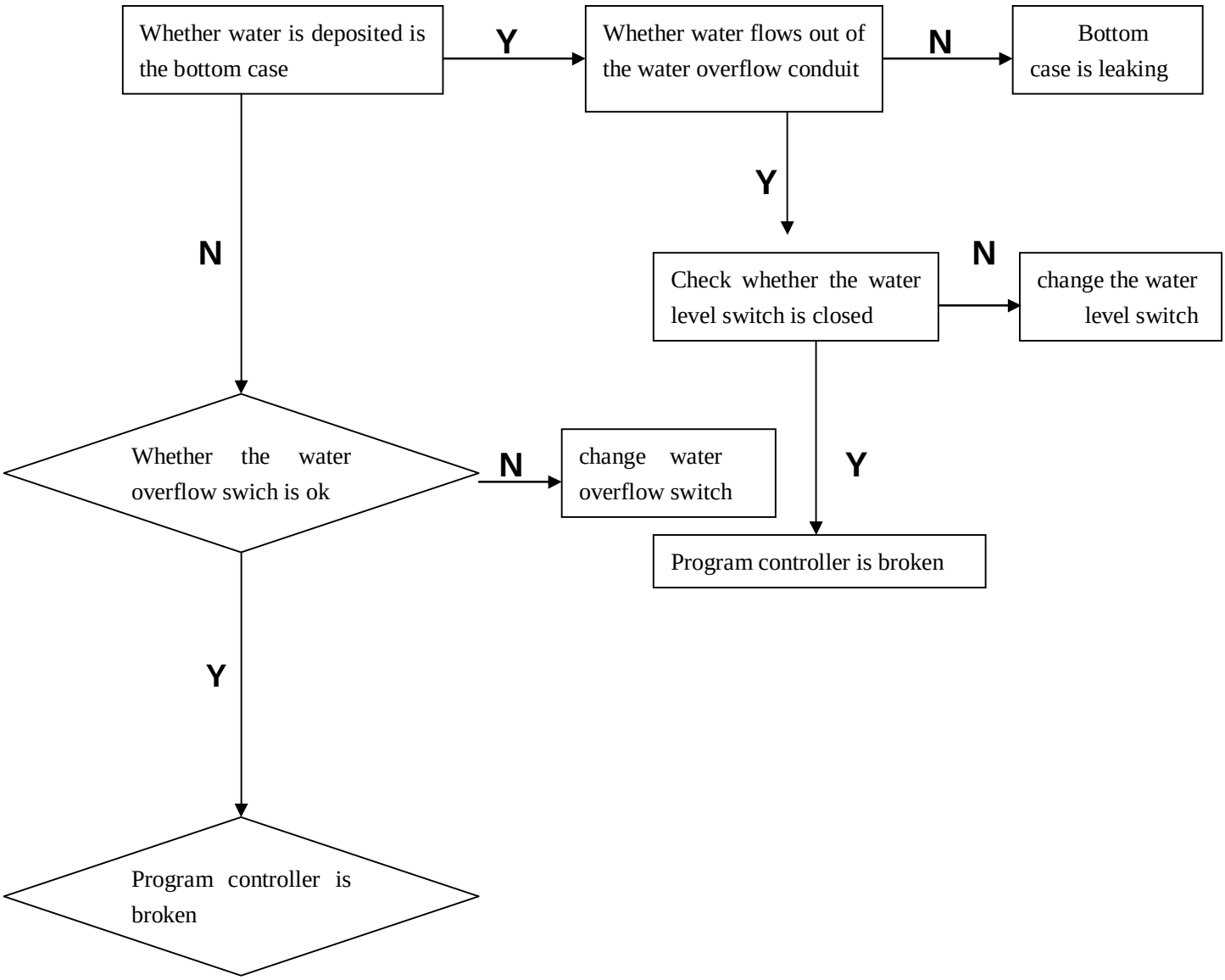
Phenomenon: program controller stop turnning

Check:



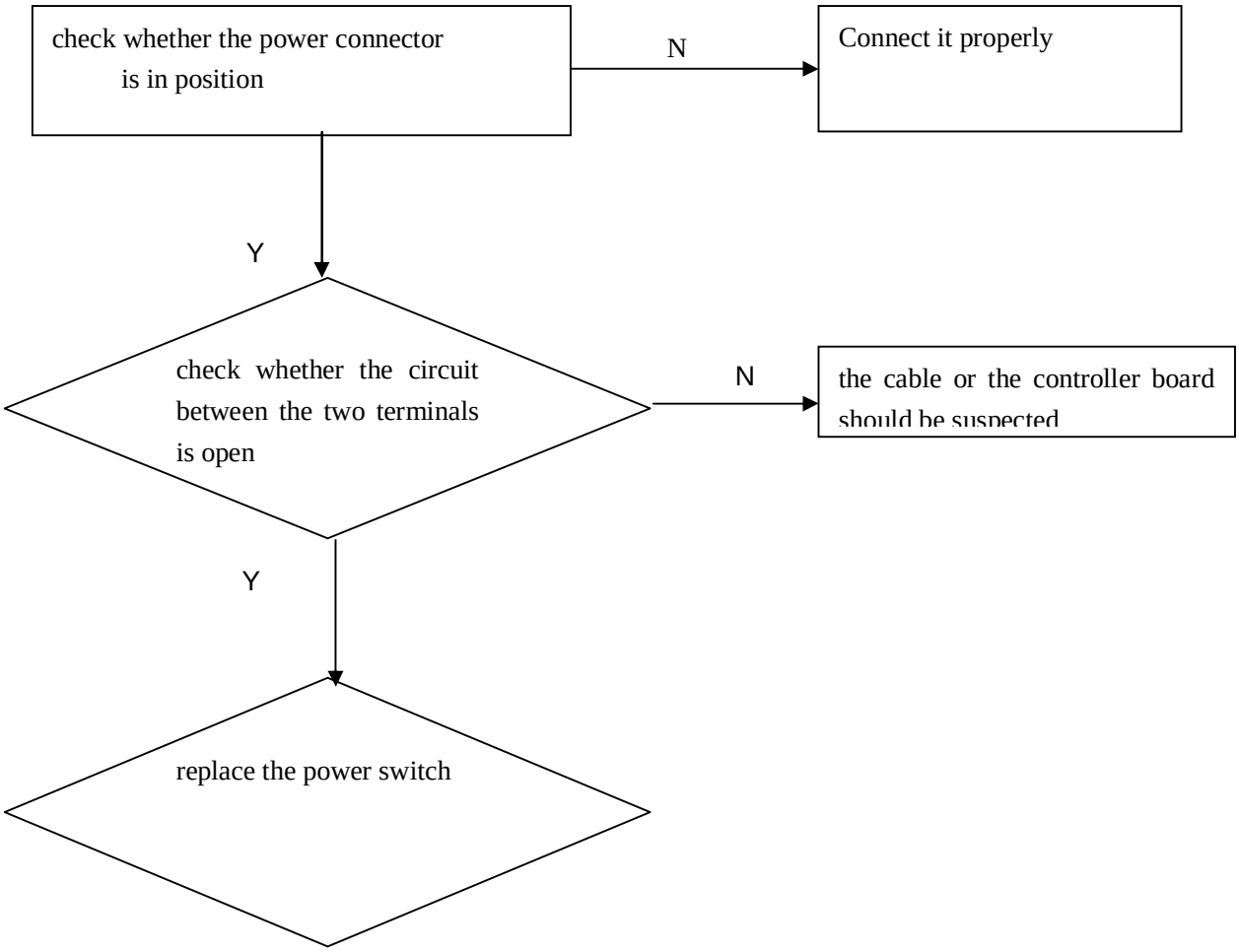
Water overflow trouble

Phenomenon: drain pump keep on working

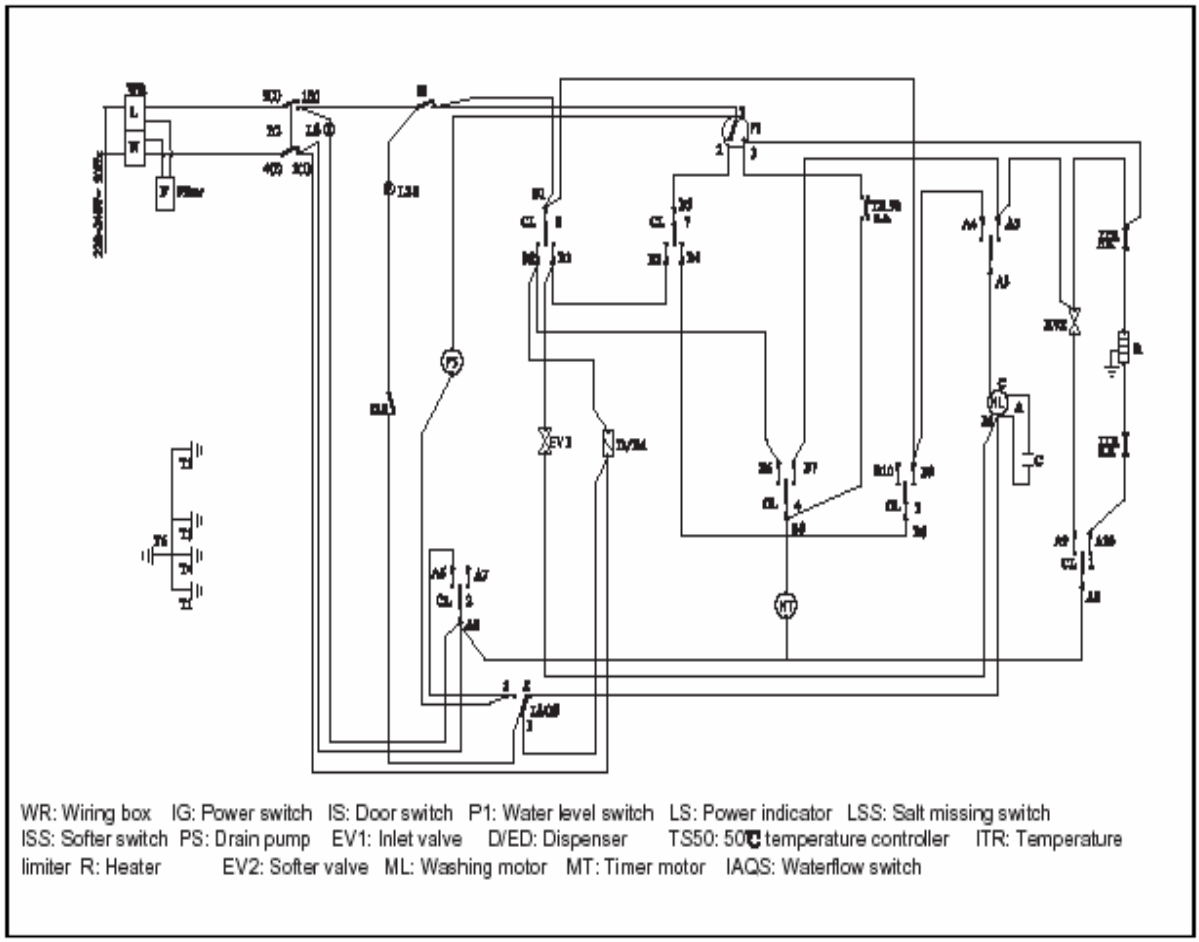


Power supply trouble

Phenomenon: dashwaser cannot work


check whether the power connector is in position
N
Connect it properly
Y
check whether the circuit between the two terminals is open
N
the cable or the controller board should be suspected
Y
replace the power switch

10. Circuit Diagram



WR: Wiring box IG: Power switch IS: Door switch P1: Water level switch LS: Power indicator LSS: Salt missing switch
ISS: Softer switch PS: Drain pump EV1: Inlet valve D/ED: Dispenser TS50: 50℃ temperature controller ITR: Temperature limiter R: Heater EV2: Softer valve ML: Washing motor MT: Timer motor IAQS: Waterflow switch

Sincere Forever

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